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TI - CONICAL SCANNING ANTENNA
IN - TSUTAYA RIYOUJI
PA - NIPPON ELECTRIC CO
IC - H01Q3/20 ; H01Q19/19

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TI - Conical scanning antenna - has rotary reflecting sub-mirror inclined to axis of main mirror NoAbstract Dwg1/4
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TI - CONICAL SCANNING ANTENNA
AB - PURPOSE: To obtain an antenna with less phase efficiency and side lobe deterioration by forming a sub reflecting mirror to have a shape corrected in geometrical optics in a way that an equal phase face at an aperture of a spherical wave radiated from a primary radiator is a plane having a linear tilt with respect to an antenna axis and constituting the sub reflecting mirror so as to be driven around the antenna axis.
- CONSTITUTION: The sub reflection mirror2 is formed to be an asymmetrical curved face in the X-Z plane as shown in figure (a) and to be a symmetrical curved face in the Y-Z plane as shown in figure (b) and when an electromagnetic wave beam being a spherical wave reflected in the sub reflection mirror2 is reflected as a planer wave in a main reflection mirror1, the equal phase face

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(wave front) results in a curved face corrected in geometrical optics so as to be a plane having a linear tilt with respect to the antenna axis. Moreover, a caption A is an aperture and a caption B is an aperture wave front. Then the sub reflecting mirror 2 is driven around the antenna shaft by a motor 3.

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